



**Red Hat Academy**  
**In Collaboration with NEC**



## Global Certification Courses

### Eligibility

Students from II, III and IV Year B.E/ B.Tech

### Course Objective:

- Understand key command line concepts and other enterprise-level tools
- To Control common system hardware; administer Linux printing subsystem.

### Course Outcomes

***Upon successful completion of this course, the student will be able to:***

- Manage files from command line
- Create, view, and edit text files
- Manage local Linux users and groups
- Monitor and manage Linux processes
- Control services and daemons
- Control access to files with Linux file-system permissions
- Analyze and store log files
- Configure and secure the OpenSSH service
- Install and update software packages
- Access Linux file systems
- Manage Linux networking

### Course Overview

#### Advantages of Open Source

- ✓ Users have access to the source code of the program and can change it.
- ✓ "Free" software relates to the user's ability to use and improve the software, not the price.
- ✓ "Open-source software needs to be built, which would be cost-effective for the entire society."

## Benefits for Students

### About Red Hat

- ✓ **Red Hat Academy** supports with a hands-on instruction curriculum and labs.
- ✓ Performance-based testing and educator support all essential elements that help to start and continue a Linux curriculum program. **Red Hat Certification** is world's most acclaimed IT certifications in its category.
- ✓ By offering these certifications can add a better value for its existing IT education program and prepare the increases the employ ability and skill level of the student both in local and global market.
- ✓ Red Hat certifications are an industry leading accomplishment, as it ensures you will be able to get the most out of Red Hat deployments.
- ✓ After taking this course student will be able to do tasks such as lab-based knowledge checks, facilitative discussions to ensure maximum skill transfer and retention, installation, establish network connectivity, manage physical storage and perform basic security administration.

### Programme Features

- Industry-leading curriculum that covers Linux, cloud, and middleware technologies to help
- Flexible hands-on lab options to help academies accommodate their students.
- Discounted Red Hat certifications for students.
- Instructor skill improvement through no-cost access to Red Hat online training courses.
- Globally standardized materials available through the Red Hat Academy portal.

### Courses and Certifications

Red Hat Academy offers a range of curriculum and global certifications. The program provides access to five on-demand courses at present.

CORE SYSTEM ADMINISTRATION			
<i>Learn to deploy, administer, manage, and Secure Red Hat Enterprise Linux.</i>			
Course Name	Course Code	Duration (in hours)	Exam name/code
• Red Hat System Administration I (SA1)	RH124	40 hrs	RHCSA/EX200
• Red Hat System Administration II (SA2)	RH134	32 hrs	
• Red Hat System Administration III	RH254	32 hrs	RHCE/EX300

<b>MIDDLEWARE DEVELOPMENT</b>			
<i>Master Middleware Applications</i>			
<b>Course Name</b>	<b>Course Code</b>	<b>Duration (in hours)</b>	<b>Exam name/code</b>
• Red Hat Application Development I: Programming in Java EE	JB183	32 hrs	RHCED/EX183
• Red Hat Application Development II: Implementing Microservice Architectures	JB283	32 hrs	RHCEMD/EX283

<b>CLOUD COMPUTING</b>			
<i>Support organizational movement to the cloud</i>			
<b>Course Name</b>	<b>Course Code</b>	<b>Duration (in hours)</b>	<b>Exam name/code</b>
• Red Hat OpenStack Administration I	CL110	40 hrs	CL110
• Introduction to Containers, Kubernetes, and Red Hat OpenShift	DO180	24 hrs	DO180

<b>RED HAT CERTIFICATION</b>	
<b>Certification available through Red Hat Academy (50% discount for students)</b>	
<b>Name of the Exams</b>	<b>Exam Code</b>
• RHCSA – Red Hat Certified System Administration	EX200
• RHCE – Red Hat Certified Engineer	EX300
• RHCEAD – Red Hat Enterprise Application Developer	EX183
• RHCEMD – Red Hat Enterprise Microservices Developer	EX283

#### **Training Program Fees:**

- **RHCSA:** Fees per student: Rs.3,500/- for the first Two Modules(SA1 & SA2).
- **RHCE:** Fees per students: Rs.3,000/- for Third Module (SA3).

#### **Exam Fees:**

#### **Exclusive Exam benefit for Red Hat Academy Students**

- **RHCSA:** Rs.7,500 + Service Tax (Actual Exam Price : Rs.15000 + 18% Tax)
- **RHCE:** Rs.7,500 + Service Tax (Actual Exam Price : Rs.15000 + 18% Tax)

**Note:** Exam can be taken on students Opinion and Interest.

## **Content Delivery**

A batch of 30 students will be provided with private, customized, on-site training at our premises. This course is 90% hands-on, 10% lecture, with the longest lecture segments lasting for 40 minutes.

## **Training Materials**

- Courseware formats that include e-book, printed, or online.

## **OS & Hardware Requirements**

### **OS:**

Red Hat Enterprise Linux 7

### **Hardware Requirements**

- Intel Core i5 CPU with VT support or AMD FX-6xxx with AMD-V
- 8 GB RAM
- 500GB HDD on a single disk
- 1280x1024 Screen resolution
- Gigabit Ethernet
- USB2/DVD support (USB3 recommended)

## **Assessment Procedure**

- The course learner's outcomes will be assessed through online examinations.

### **Contact Person (for Registration)**

*Dr.V.Gomathi,*

*Professor & Head / CSE Dept.,*

*Email Id: [necse\\_rha@nec.edu.in](mailto:necse_rha@nec.edu.in)*

*Phone:84288 84480*

*National Engineering College (Autonomous),*

*K.R.Nagar, Kovilpatti – 628 503.*